THE UNITED STATES PATENT AND TRADEMARK OFFICE.

In re application of:

Confirmation No.: 7304

Sorrells et al

Art Unit: 2617

Appl. No.: 09/476,092

Filed: January 3, 2000

Examiner: Mehrpour, Naghmeh

Atty. Docket: 1744.0250001

Analog Zero IF FM Decoder and For:

Embodiments Thereof, Such As The Family Radio Service

Thirteenth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Thirteenth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Twelfth Supplemental Information Disclosure Statement filed on July 13, 2006 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Document AL26 was cited in an Office Action in related U.S. Patent Application No. 10/305,299, filed November 27, 2002, entitled "Method and Apparatus for Improving Dynamic Range in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 4,380,828; 4,562,414; and 5,339,459, which have already been cited in the present application.

Documents AO62 and AA79-AD79 were identified in a search relating to U.S. Patent Application No. 11/582,367, filed October 18, 2006, entitled "Apparatus and Method for Communicating an Input Signal in Polar Representation," directed to related subject matter.

Documents AC77, AD77, and AF78-AH78 are co-owned patents which are directed to related subject matter.

Documents AE77-AI77 and AA78-AD78 were cited in an Office Action in related U.S. Patent Application No. 10/318,207, filed December 13, 2002, entitled "Method and Apparatus for Reducing Re-Radiation Using Techniques of Universal Frequency Translation Technology," directed to related subject matter.

Document AE78 was cited in an Office Action in related U.S. Patent Application No. 11/173,021, filed July 5, 2005, entitled "Method and Circuit for Down-Converting a Signal," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 3,694,754 and 6,393,070, which have already been cited in the present application.

Document AI78 was cited in an International Search Report and Written Opinion in related PCT Application No. PCT/US2004/013813, filed April 30, 2004, entitled "Real-Time Wireless Exchange of Objects," directed to related subject matter.

Document AE79 was cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,844,868 and 5,982,315, which have already been cited in the present application.

Document AF79 was cited in an Office Action in related U.S. Patent Application No. 10/453,622, filed June 4, 2003, entitled "Active Polyphase Inverter Filter for Quadrature Signal Generation," directed to related subject matter. Also cited in said Office Action was Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," IEE Proceedings-I, IEE, Vol. 139, No. 3, pp. 281-288 (June 1992), which has already been cited in the present application.

Document AG79 was cited in an Office Action in related U.S. Patent Application No. 10/086,367, filed March 4, 2002, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 3,641,442, which has already been cited in the present application.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below:

b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of

information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign

Atty. Docket: 1744.0250001

application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(e) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$______ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - □ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more Atty. Docket: 1744.0250001

Sorrells *et al.* Appl. No. 09/476,092

than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

□ 5.	The document(s) was/were cited in a search report by a foreign patent office in a
	counterpart foreign application. Submission of an English language version of the
	search report that indicates the degree of relevance found by the foreign office is
	provided in satisfaction of the requirement for a concise explanation of relevance.
	1138 OG 37, 38.
⊠ 6.	A concise explanation of the relevance of the non-English language documents
	appears below in accordance with 37 C.F.R. § 1.98(a)(3):
	Document AL26 (JP 10-173563) appears to describe an up-down tuner. An English
	language translation of document AL26 is enclosed as document AN62.
⊠ 7.	Copies of documents AL26, AN62, and AO62 are enclosed. However, in
	accordance with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents and patent
	publications cited on the attached Form PTO-1449 are not enclosed.
□ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
	Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
<u> </u>	It is expected that the examiner will review the prosecution and cited art in the
	parent application no(s) in accordance with MPEP 2001.06(b), and
	indicate in the next communication from the office that the art cited in the earlier
	prosecution history has been reviewed in connection with the present application.

Atty. Docket: 1744.0250001

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

TURNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee

Attorney for Applicants Registration No. 35,239

Date: November 7, 2006

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

605061 1.DOC

		U 1 U-1-7-0			0250001	1.00/47	ദ വരാ			
FORM PTO-1449 THIRTEENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT					1744.0250001 09/476,092 FIRST NAMED INVENTOR					
					F. Sorrells DATE	ART L	JNIT			
			H.C.D.	Janua	ary 3, 2000	2617				
EXAMINER	DOC.	DOCUMENT NUMBER	DATE	NA	DOCUMENTS ME	CLASS	SUB-CLASS	FILING DATE		
INITIAL	REF.			1		02.00	000 00.00	110,700,077,2		
	АВ			+						
	AC77	7,082,171 B1	07/2006	Joh	nnson et al.					
	AD77	7,085,335 B2	08/2006	Rav	wlins et al.					
	AE77	3,739,282	06/1973	Bru	ich et al.					
	AF77	4,439,787	03/1984	Mo	gietal.					
	AG77	4,866,441	09/1989	Coi	nway et al.					
	AH77	4,885,671	12/1989	Pei	I					
	Al77	5,164,985	11/1992		sen <i>et al.</i>					
EXAMINER	DOC.				T DOCUMENTS		1	T		
INITIAL	REF.	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes		
	AJ							No		
	AK							Yes No		
	AL26	JP 10-173563	06/1998		JP			Yes (Doc. AN62)		
	АМ							Yes No		
EXAMINER	DOC.	N	ION-PATENT	LITERA	TURE DOCUMENTS					
INITIAL	REF.	CITATION								
	AN62	English-language Computer Translation of Japanese Patent Publication No. JP 10-173563, provided by the JPO, 10 pages (June 26, 1998 - Date of publication of application) and cited in U.S. Patent Application Ser. No. 10/305,299, directed to related subject matter.								
	AO62	What is I/Q Data?, printed September 16, 2006, from http://zone.ni.com, 8 pages (Copyright 2003).								
	AP									
	AQ									
	AR							-		
EXAMINER		I				DATE CO	NSIDERED			

									Page 2 of 2	
FORM PTO-1449 Thirteenth Supplemental					7. DOCKET NO.			CATION NO.	Page 2 of 3	
				1744.0250001 09/476,092 FIRST NAMED INVENTOR						
INFORMATION DISCLOSURE STATEMENT					David F. Sorrells FILING DATE ART UNIT					
			U.S. P.		DOCUMENTS		2617			
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE		AME	(CLASS	SUB-CLASS	FILING DATE	
	AA78	5,734,683	03/1998	Hi	ulkko et al.					
	AB78	5,918,167	06/1999	Ti	ller <i>et al</i> .					
	AC78	6,445,726 B1	09/2002	G	Gharpurey					
	AD78	6,560,451 B1	05/2003	Somayajula						
	AE78	2,530,824	11/1950	Ki	King					
	AF78	7,107,028 B2	09/2006	S	Sorrells et al.					
	AG78	7,110,435 B1	09/2006	S	Sorrells et al.					
	AH78	7,110,444 B1	09/2006	S	Sorrells et al.					
	AI78	6,973,476 B1	12/2005	Naden et al.						
	1000		FOREIGN	PATE	NT DOCUMENTS			Γ''	T	
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE		COUNTRY		CLASS	SUB-CLASS	TRANSLATION Yes	
	AJ								No Yes	
	AK								No Yes	
	AL								No Yes	
	AM								No	
EXAMINER	NON-PATENT LITERATURE DOCUMENTS DOC. CITATION									
INITIAL	REF.				GIATION			~		
	AN									
	AO									
	AP									
•	AQ									
	AR									
EXAMINER	,		**			D/	ATE CC	NSIDERED		
		rence considered, whether o				9. Draw lin	e throug	h citation if not	in conformance	
and not conside 605055_1.DO		de copy of this form with ne	<u>AL COMMUNICAT</u>	uon io P	ppiicalit.					

							Page 3 of 3			
FORM PTO-1449 THIRTEENTH SUPPLEMENTAL				ATTY, DOCKET NO. 1744.0250001	APPLI 09/47	CATION N O. 6,092				
				FIRST NAMED INVENTOR David F. Sorrells						
<u>11</u>		N DISCLOSURE STATEMENT		FILING DATE ART UNIT						
			II S DA	January 3, 2000	2617					
EXAMINER INITIAL	MINER DOC. DOCUMENTALLINGED DATE			NAME	CLASS	SUB-CLASS	FILING DATE			
	AA79	5,834,987	11/1998	Dent						
	AB79	RE37,138 E	04/2001	Dent						
	AC79	6,441,694 B1	08/2002	Turcotte et al.						
	AD79	6,892,057 B2	05/2005	Nilsson						
	AE79	6,741,650 B1	05/2004	Painchaud et al.						
	AF79	6,441,659 B1	08/2002	Demone						
	AG79	2002/0132642 A1	09/2002	Hines et al.						
	АН									
	AI									
EXAMINER	DOC.)C		PATENT DOCUMENTS		T	I			
INITIAL	REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION Yes			
	AK						No Yes			
	AL				102	-	No Yes			
	AM						No Yes			
		N N	ION-PATENT	LITERATURE DOCUMENTS			No			
EXAMINER INITIAL	DOC. REF.	OC. CITATION								
	AN									
	AO									
	AP									
	AQ									
	AR									
EXAMINER		1			DATE CO	NSIDERED				
EXAMINER: If	nitial if refer	ence considered, whether o de copy of this form with nex	r not citation is	in conformance with MPEP 609. D	raw line throug	h citation if not	in conformance			
605055_1.DO		as sopy or and tour with the	John Harmodu	on to Approvers						